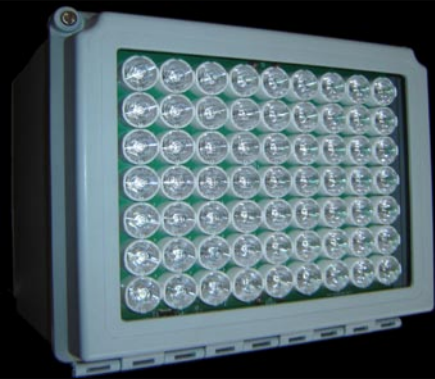
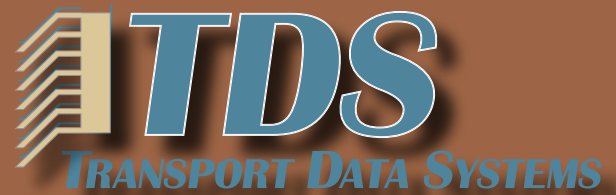


High Power Pulsed Illuminators



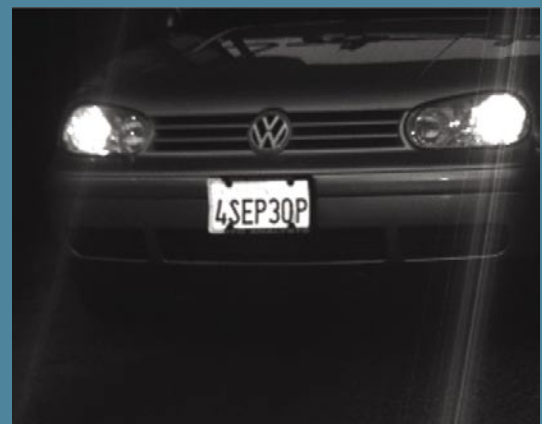
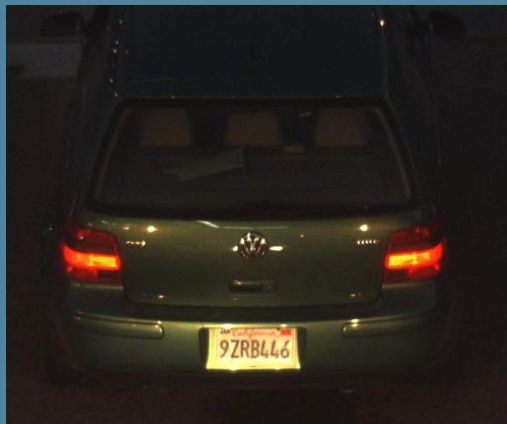
Visible



Near Infrared

The TDS Visible LED illuminator provides pulsed flash illumination to enable photo capture during low light conditions. The illuminator strobe is digitally controlled with the illuminator only being activated during the exposure period. This results in a significantly lower duty cycle which results in a low average power consumption. The illuminator is capable of operating up to a duty cycle of 4 per cent with a maximum pulse width of 1.5 milliseconds. It will provide an operational lifecycle of 10+ years.

Infrared (IR) illuminators are typically used in situations where ambient IR illumination is either not present or not sufficient to produce properly exposed near IR images. In that case an external IR illuminator can provide an extra source of invisible infrared light. IR illumination is ideal for nighttime operation without attracting unwanted attention and for covert operations; it can be used for indoor and outdoor use.



High Energy Pulsed Visible Illuminator

The visible illuminator features 63 White Luxeon K2 LEDs and is part of the next generation of LEDs that raises the industry standard for light output, thermal management, cost and ease of use. The K2 Power LED offer the world's best LED light output with 130 lumens of pure White light, outstripping the performance of other power LEDs and significantly lowering the cost per lumen. It has a color spectrum that resembles a warm incandescent lamp.

The LEDs in the visible illuminator are focused through lenses to provide increased range while also reducing unwanted off axis light pollution. Connection to the illuminator is through a Binder 423 connector, which is a rugged, high-performance circular connectors with excellent EMI shielding and IP67 compliance. It is ideal for severe industrial and commercial applications.

High Energy Pulsed IR Illuminator

The TDS Infrared illuminator features 63 IR emitters. They are high intensity diodes molded in a clear plastic. These infrared LEDs have peak emissions at a wavelength of 850 nm, are highly efficient and are ideal for CCD cameras, infrared applied systems, and night vision applications. Connection to the TDS Infrared Illuminator is also through a Binder 423 connector, which are rugged, high-performance circular connectors with excellent EMI shielding and IP67 compliance. It is ideal for severe industrial and commercial applications.

Number of LEDs	63
Voltage	+10 to +12 VDC
Current Requirement	1 amp quiescent, 5 amp surge
Dimensions	10.25(W) x 9(H) x 6.25(D) inches
Weight	6.5 pounds
Wavelength	Visible or IR(850 nanometers)
Construction	Polycarbonate
Window	Lexan
Coverage	Visible – 8, 12, 19, 22, 35 and 79 degree options IR – 25 degree. (Full width half maximum)
Range	100 feet
Trigger – Active High TTL signal	5 volt trigger
Enable – Active Low TTL signal	5 volt enable – Used to disable the unit during camera reset.
Pulse Width Limitation	1.5 milliseconds

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